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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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STAAS & HALSEY
700 ELEVENTH STREET NW
SUITE 500
WASHINGTON DC 20001

EXAMINER
GARCIA, G

ART UNIT	PAPER NUMBER
2724	4

DATE MAILED: 07/19/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

☐ Responsive to communication(s) filed on _____

☐ This action is **FINAL.**

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire _____*three*_ month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

☒ Claim(s) *1-10* _____ is/are pending in the applicat

Of the above, claim(s) _____ is/are withdrawn from consideration

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) *1-10* _____ is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☒ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☒ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been

    ☒ received.

    ☐ received in Application No. (Series Code/Serial Number) _____ .

    ☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____*3*_____

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

DETAILED ACTION

1.   Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

2.   Applicant is reminded of the proper language and format for an abstract of the disclosure. The form and legal phraseology often used in patent claims, such as **"comprises"** should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

3.   The Abstract of the Disclosure is objected to because it contains the objectionable language described above, and also because the word "am" on line 4 of the abstract should be changed to "an". Corrections are required. See MPEP § 608.01(b).

4. 35 U.S.C. 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The specification is replete with terms which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. 112, first paragraph. Examples of **some** unclear,   inexact or verbose terms used in the specification are: On page 5, line 26, the word " am" should be changed to " an "; on page 11, line 23 the phrase "in a positions" appears that should be changed to " in positions"; on page 13, line 17, the phrase "when a" appears that should be changed to "when an"; on page 14, line 7, line 14 and line 22, the phrase "not shown" should be changed to "(not shown)", this error is found throughout the

specification; on page 15, line 1, the phrase "Fig. 4" appears that should be changed to "Fig. 3);

and on page 16, line 12, the phrase "4-1 4-2" appears that should be changed to "4-1 and 4-2".

The specification has not been checked to the extent necessary to determine the presence of all

possible errors. Applicant's cooperation is requested in correcting any errors of which applicant

may become aware in the specification.

5.   The title of the invention is not descriptive. A new title is required that is clearly indicative

of the invention to which the claims are directed.

The following title is suggested: "A PRINTER CAPABLE OF SEPARATELY

PROCESSING A PLURALITY OF PRINT DATA BASED ON ATTRIBUTES ".

6.   Claims 1-5,8 and 9 are objected to because of the following informality:

With regard to claim 1, and therefore its dependent claims, on line 2 of claim 1, the word "am"

should be changed to "an". Appropriate correction is required.

. With regard to claims 3 and 8, and therefore its dependent claims, on line 4 of claims 3 and 8,

the phrase "an text" should be changed to "a text". Appropriate correction is required.

With regard to claim 4 and 9, on line 4 recited the phrase "each image" appears that it should be

changed to "an image". Appropriate correction or clarification is required.

Claim Rejections - 35 USC § 102

7.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United
States before the invention thereof by the applicant for patent, or on an international application by another who
has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention
thereof by the applicant for patent.

8.   Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Kageyama et al.

(5,774,638).

With regard to claim 1, Kageyama et al. teaches a printer (figure 1, items 11 and 18) outputting

a plurality of print data (i.e. abstract) corresponding to an image to be printed on a same page

(i.e. col. 5, lines 41-53), each of the print data having an attribute (i.e. col. 3, lines 10-24), said

printer comprising: an image buffer (i.e. figure 1, item 141) storing each of the print data in

accordance with the attribute (i.e. col. 3, line 10-20, col. 22, lines 62-67, and col. 23, lines 48-55);

a plurality of video interfaces (i.e. figure 1, items 104,114 and 124), each of said video interfaces

reading each of said print data stored in the image buffer (reads on figure 1, the interfaces

(104,114 and 124) read the data from the shared memory (141) to be processed by the different

image processors (107,117 and 127)); a print data integration circuit (reads on figure 1, item 100,

which controls the integration of data to be printed by the print engine 18, see col. 3, line 55 thru

col. 4, line 11) integrating the plurality of print data read by the video interfaces into a piece of

print data for the same page (e.g. col. 5, lines 41-53); and an output mechanism (figure 1, item

18) outputting the image of the same page based on the print data integrated by the print data

integration circuit (i.e. col. 3, line 55 thru col. 4, line 11 and col. 5, lines 41-53).

With regard to claim 2, Kageyama et al. further teaches the plurality of print data stored in the

image buffer contain form print data corresponding to a form and text print data corresponding to

a text to be printed over the form (fig. 16 and col. 24, lines 7-40).

With regard to claim 3, Kageyama et al. further teaches a printer having separation means

(reads on fig. 1, item 100) for separating print data corresponding to an image with a text into

print data corresponding to the image and print data corresponding to the text (e.g. col. 3, line 10

thru col. 4, line 19); and storage means (fig. 1, item 141) for storing each of the print data

separated by the separation means in the image buffer in accordance with the attribute (e.g. col. 3,

lines 10-32).

With regard to claim 4, Kageyama et al. further teaches a printer comprising a plurality of image

processing circuits (fig. 1, item 100,110, or 120), each of said image processing circuits applying

each image process to each of the print data read by each of said video interfaces (col. 5, lines 42-

53).

With regard to claim 5, Kageyama et al. further teaches a plurality of print data stored in the

image buffer are obtained by dividing print data corresponding to the image to be printed data on

the same page into a plurality of bands, and wherein said print data integration circuit repeatedly

selects each of said print data read by each of said video interfaces and outputs selected print data

to the output mechanism (e.g. figures 20-24 and col. 5, lines 42-53).

5,774,638).

With regard to claim 6, <u>Kageyama et al</u>. teaches a controller (figure 1, item 11) controlling a

plurality of print data (i.e. abstract), each of the print data having an attribute (i.e. col. 3, lines 10-

24), said controller comprising: a plurality of video interfaces (i.e. figure 1, items 104,114 and

124), each of said video interfaces reading each of said print data stored in the image buffer

storing each of the print data in accordance with the attribute (reads on figure 1, the interfaces

(104,114 and 124) read the data from the shared memory (141) to be processed by the different

image processors (107,117 and 127), and col. 3, lines 10-39); and a print data integration circuit

(reads on figure 1, item 100, which controls the integration of data to be printed by the print

engine 18, see col. 3, line 55 thru col. 4, line 11) integrating the plurality of print data read by the

video interfaces into a piece of print data for the same page (e.g. col. 5, lines 41-53).

With regard to claims 7-10, the limitations of claims 7-10 are covered by the limitations of claims

2-5 above (e.g. part of the printer of claims 2-5 consist of the controller as claimed in claims

7-10).

Conclusion

9.   The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

<u>Takahashi</u> (6,002,848) teaches a band based printing control system.

<u>Gauthier</u> (5,937,153) teaches a method of utilizing variable data fields with a page description

language.

<u>Cooper et al.</u> (5,850,504) teaches a method and apparatus using strips to save printer memory.

Hosogai (5,499,110) teaches an image processing apparatus for synthesizing different input data

without using hard copy.

Nagasaka. (5,333,246) teaches a page description language interpreter for a parallel processing

system.

Nardozzi (5,179,637) teaches a method and apparatus for distributing print jobs among a

network of image processors and print engines.

Anzai (5,067,024) teaches a recording apparatus with control of stored overlapping form data

for two sided printing.

Cuzzo et al. (Re 35,922) teaches a method and apparatus for preventing print overruns.

10.   Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Gabriel I. Garcia whose telephone number is (703) 305-8751. The examiner

can normally be reached Monday thru Thursday from 7:30AM-6:00PM.

Any inquiry of a general nature or relating to the status of this application should be

directed to the Group receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

> Commissioner of Patents and Trademarks
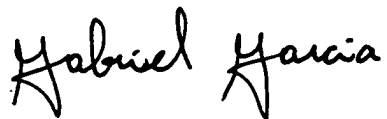> Washington, DC 20231

or faxed to:

> (703) 306-5406 (official)
> (703) 308-5397 (unofficial)

Art Unit: 2724

Gabriel I. Garcia
Patent Examiner
February 3, 2000